INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07373

A. CLASSIFICATION OF SUBJECT MATTER IPC: C07D 473/34(2006.01),487/04(2006.01);A61K 31/519(2006.01),31/52(2006.01)					
USPC: 544/262,277,280;514/263.4,262.1,265.1 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 544/262,277,280; 514/263.4,262.1,265.1					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE .					
C. DOC	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.		
X A	KELLEY, J.L. et al, Antirhinovirus activity of 6-anilino-9-benzyl-2-chloro-9H-purines, Journal of Medicinal Chemistry, 1990, Vol. 33, No. 5, pages 1360-3. Compound 16, Table I, page 1361 fits the formula of claim 1 with Y = W = N, A1-A4 = B1=B5 = X = CH, 4,		1-3, 16-18, 29-31, 41 		
.	GHORAB, M. M. et al, Antimicrobial activity of an derivatives of pyrazolo[3,4-d]pyrimidine, Heteroator pages 57-62. Compound 12, scheme 3, page 59 fits N, A1-A4 = B1=B5 = W = CH, R2 = SO2NH2,	n Chemistry, 2004, Vol. 15, No. 1, the formula of claim 1 with $X = Y =$	1, 2, 4, 16, 17, 19, 29, 30, 32, 64		
Further documents are listed in the continuation of Box C. See patent family annex.					
Special categories of cited documents: "T" "A" document defining the general state of the art which is not considered to be of particular relevance "X"		date and not in conflict with the applic principle or theory underlying the inve "X" document of particular relevance; the	tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be		
"E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as		considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be			
specified)		considered to involve an inventive step combined with one or more other such	documents, such combination		
"P" document					
	priority date claimed Date of the actual completion of the international search Date of mailing of the international search report				
l	27 March 2006 (27 03 2006) 1 7 5 JUN 2000				
Name and mailing address of the ISA/US Authorized officer A. Roberto Jan					
P.O. Box 1450 Alexandria, Virginia 22313-1450		Authorized officer A. Roberto for Thomas C. McKenzie, Ph.D. Telephone No. (571) 272-1600			
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Form PCT/ISA/210 (second sheet) (April 2005)

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1 Claims.Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
Claims Nos.: parts of 1, 16, 29, 41, 47, 49, 60, 62, 66, 70, 78, 80 and 82 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet			
3. Claims Nos.: 5-15,20-28,33-40,42-46,48,59,61,65,69,77,79,81 and 83-92 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.			

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Continuation of Box II Reason 2:	
In these claims, the numerous variables and their voluminous, complex meanings a virtually impossible to determine the full scope and complete meaning of the claim	and their seemingly endless permutations, makes it
meaningful search on same. These claims so lack support in the specification that	only compounds with $Y = N$ and $A1-A4 = R1 = R5$
= C were searched	only compounds with the 14 and 112-114 - D1-D3
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C. (Continu	uation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with-indication, where appropriate, of the relevant passages	Relevant to claim No.
х	WO 03/099820 A1 (DAS et al.) 4 December 2003 (04.12.2003). Compound 60, page 57 is a ring position isomer of the formula of claim 1 with $X=Y=N$, A1-A3 = B1=B5 = W = CH, A4 = C(CH3), R2 = CONHCH3, R3 = H, and n = 1. See also compounds 15, 17, 19, 28, 34, 40, and 42. Claims 17 and 18 of the reference teach the treatment of inflammatory diseases.	1, 2, 4, 16, 17, 19, 29, 30, 32, 47, 49-5 60, 62-64, 66, and 6
τ	WO 2005/047288 A1 (TIBERGHIEN et al.) 26 May 2005 (26.05.2005), Example 60, page 43.	1, 2, 4, 16, 17, 19 29, 30, and 32
P,X	WO 2005/016528 A2 (CHENG et al.) 24 February 2005 (24.01.2005). Compound 143, Table I, page 57 fits the formula of claim 1 with Y = W = N, A1-A4 = B1=B5 = X = CH, R2 = CONHPr, R3 = Rx-L-M-Ry, Rx = a bond, L = NRz, Rz = H, M = CH2-CH2, Ry = 4-imidazolyl, and n = p = 0. Page 12 of the reference teaches the treatment of cancer and atherosclerosis.	29, 30, and 32 1-3, 16-18, 29-31, 4 47, 49-58, 60, and 6